IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Currently amended) A processor, comprising:
- a cache capable of storing data;
- a control logic capable of controlling a flow of data; and
- at least one core coupled to the cache and the control logic, capable of generating a multiple of a CPU clock signal having, the at least one core comprising:
 - an instruction cache capable of storing data;
 - an instruction fetch unit capable of fetching data;
- a plurality of integer execution units coupled to the instruction fetch unit, each integer execution unit generating, in response to the data, an output signal at a first frequency, the first frequency being a frequency of the CPU clock signal;
- a plurality of latches, each latch connected to receive the output signals from the integer execution units;
- a merge unit, the merge unit generating a merged signal containing the output signals at a second frequency, the second frequency being a multiple of the first frequency; and
- a single floating point graphics unit, the floating point graphics unit comprising logic for processing the merged signal at the second frequency, the processing comprising performing floating point arithmetic operations coupled to the plurality of integer execution units including circuitry capable of generating the multiple of the CPU clock signal.

- 2. (Currently amended) A processor The processor of claim 1, wherein the merge unit comprises further comprising a delay-locked loop (DLL) circuit having a charge pump, the DLL circuit being capable of generating the multiple of the CPU clock signal a clock signal at the second frequency.
- 3. (Currently amended) A processor The processor of claim 2, wherein the DLL circuit comprises a voltage control delay line unit capable of generating multiple delayed clock signals.
- 4. (Currently amended) A processor The processor of claim 2, wherein the DLL circuit further comprises a control signal capable of eontrolling delaying the CPU clock signal by propagating the CPU clock signal through a plurality of inverters.

5. (Canceled)

- 6. (Currently amended) A processor The processor of claim 2 claim 3, wherein the DLL circuit further comprises at least one symmetric NOR and one symmetric NAND capable of combining signals.
- 7. (Currently amended) A processor The processor of elaim 3 claim 6, wherein the voltage control delay line unit further comprises a delay unit having at least two inverters capable of delaying the CPU clock signal.
- 8. (Currently amended) A processor The processor of claim 7, wherein a first delayed clock signal and a last delayed clock signal signals from at least two inverters the voltage control delay line unit are manipulated into a control signal compared by a phase frequency detector and converted into a control signal by the charge pump.

9. (Canceled)

10. (Currently amended) A processor The processor of claim 2 claim 8, wherein the DLL circuit further comprises a charge pump having a Schmitt circuit, capable of increasing or decreasing a voltage of the control signal.

11. (Canceled)

- 12. (Currently amended) A processor The processor of claim 1, wherein the multiple of the CPU clock signal comprises a higher frequency clock having a higher frequency than the CPU clock signal.
- 13. (Currently amended) A processor The processor of claim 1, wherein the single floating-point graphics unit comprises a multiplier pipeline and an adder pipeline.
- 14. (Currently amended) A eireuit, comprising: a floating point graphics unit <u>for</u> processing multiple integer execution unit input signals in a single cycle of a CPU clock signal, the floating point graphics unit having, comprising:

a voltage control delay line unit capable of generating multiple delayed clock signals from the CPU clock signal, the multiple delayed clock signal including a first signal and a last signal;

a plurality of pulse generators each generating a pulse signal timed in accordance with one of the delayed clock signals;

a phase frequency detector coupled to the voltage control delay line unit capable of detecting phase differences between the first signal and the last signal, the phase frequency detector generating a phase frequency detector output;

a charge pump coupled to the phase frequency detector and the voltage control delay line unit capable of increasing or decreasing voltage a control signal voltage in response to the phase frequency detector output;

at least one at least one symmetric NOR gate and at least one symmetric NAND gate coupled to the voltage control delay line unit capable of combining a plurality of the pulse signals with identical rising edges; at least one symmetric NAND coupled to the at least one symmetric NOR capable of combining signals and generating an output clock signal having a frequency that is a multiple of the CPU clock signal with identical falling edges; and

a buffer coupled to the at least one symmetric NAND capable of buffering a multiple of a CPU the output clock signal and generating a buffered ou0tput clock signal, the buffered output clock signal driving the floating point graphics unit.

15. (Canceled)

- 16. (Currently amended) A-circuit The floating point graphics unit of claim 15, further comprising wherein the voltage control delay line unit comprises a plurality of inverters capable of delaying the CPU clock signal.
- 17. (Currently amended) A circuit The floating point graphics unit of claim 14, wherein [[a]] the control signal voltage capable of controlling the CPU clock signal is an analog value.
- 18. (Currently amended) A-circuit The floating point graphics unit of elaim 15 claim 14, wherein the output clock signal has a frequency that is a the multiple of a frequency of the CPU clock signal is a higher frequency than the CPU clock signal.
- 19. (Currently amended) A method for generating a custom clock frequency comprising:

receiving a CPU clock signal;

delaying the CPU clock signal with at least two inverters to generate a plurality of delayed CPU clock signals;

generating a plurality of output signals from the delayed CPU clock signals; and

combining a plurality of signals from the plurality of output signals to generate a combined custom clock signal, the combined custom clock signal having a frequency that is a multiple of a frequency of the CPU clock signal.

20. (Currently amended) A method The method of claim 19, further comprising regulating a control signal with a first signal and a last signal from the plurality of <u>delayed</u> CPU clock output signals.